Please attach/submit additional documents as needed to fully complete each section of the form.

I. DEPARTMENT / PROGRAM

Department of Chemistry and Biochemistry / Pharmacology Chemistry Option

II. SUMMARY

The Department of Chemistry & Biochemistry would like to change the required Physical Chemistry course from CHMY 360 to CHMY 373.

The Department of Chemistry & Biochemistry is requiring M 171 Calculus I and M 172 Calculus II. The department would like to remove the alternative M 162 and M 263 Applied Calculus sequence from the Pharmacology Option.

The department of Chemistry & Biochemistry is requiring PHSX 215N, 216N, 217N, 218N and will no longer allow the alternative PHSX 205N, 206N, 207N 208N sequence for the pharmacology Option.

III. ENDORSEMENTS AND APPROVALS

Requestor: Andrew Ranck
Phone / Email: 4022 andrew.ranck@msou.mt.edu
Program Chair: Chris Palmer

*Other Affected Programs:

Signature ___________________ Date __________
Signature ___________________ Date __________
Signature ___________________ Date __________

Dean: Chris Comer

* Are affected because: (a) required courses incl. prerequisites or corequisites, (b) perceived overlap in content areas, or (c) cross-listing of coursework

IV. TYPE OF PROGRAM MODIFICATION

☑ Major ☐ Minor ☐ Option ☐ Teaching major / minor

☐ Other, Please describe:
V. CATALOG LANGUAGE

Attach the current catalog language with the proposed changes clearly identified.

VI. JUSTIFICATION

CHMY 360 to CHMY 373 Change Justification:
The program modification will change the requirement for physical chemistry from CHMY 360 Applied Physical Chemistry or CHMY 373 Phys Chem-Knits & Thrmodynamics to exclusively CHMY 373. CHMY 373 is a more rigorous course that requires knowledge and use of calculus, and it is the more appropriate course for all chemistry majors to complete. CHMY 373 is equivalent to the physical chemistry course taught at all institutions that offer a BS in chemistry, while CHMY 360 is a less rigorous course offered at some institutions often for non-chemistry majors.

A course in physical chemistry is important to maintain as the American Chemical Society (ACS) has determined and mandates that physical chemistry is one of the required subfields of chemistry that must be satisfactorily completed for a BS degree in chemistry. To ensure the University of Montana continues to follow the ACS guidelines, the Department of Chemistry & Biochemistry will maintain the CHMY 373 course.

There are currently no majors outside of Chemistry that require CHMY 360. Interest and demand for the course from outside of chemistry programs has been low in recent years. Thus, the Department of Chemistry & Biochemistry will no longer offer CHMY 360 after Spring 2018 and will offer only CHMY 373.

M 171 and M 172 as the Only Option for Pharmacology Students:
Since CHMY 360 is being phased out as the physical chemistry option and students will be required to take CHMY 373, all chemistry students in the Pharmacology Option are required to take M 171 and M 172 to prepare students adequately to take the class.

PHSX 215N-218N Option for Pharmacology Students:
Since CHMY 373 requires Physics with Calculus as a prerequisite, all Pharmacology students will take PHSX 215N-218N instead of PHSX 205N-208N. The Physics with Calculus series is necessary for students to succeed in CHMY 373. By requiring PHSX 215N-218N students will be prepared to take CHMY 373.

VII. SUBMISSION

After all signatures have been obtained, submit original, and an electronic file to the Faculty Senate Office, UH 221. An electronic copy of the original signed form is acceptable.